PROJECT DESCRIPTION

<u>GENERAL</u>

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL WITH STREET LIGHTING AND INTERCONNECT AT THE INTERSECTION OF MD 118 (GERMANTOWN ROAD) AND GOLDENROD LANE/SENECA MEADOWS PARKWAY IN MONTGOMERY COUNTY, MARYLAND, MODIFICATIONS INCLUDE THE INSTALLATION OF AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTONS FOR THE NORTH LEG OF MD 118, THE GOLDENROD LANE APPROACH, AND THE SENECA MEADOWS PARKWAY APPROACH, MD 118 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, SEMI-TRAFFIC-ACTUATED MODE WITH THE MD 118 APPROACHES OPERATING CONCURRENTLY AND THE SENECA MEADOWS PARKWAY/GOLDENROD LANE APPROACHES OPERATING CONCURRENTLY. EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR NORTHBOUND AND SOUTHBOUND MD 118. NEW AUDIBLE PUSHBUTTON ACTUATED PEDESTRIAN PHASES WILL BE PROVIDED ACROSS THE NORTH LEG OF MD 118, THE GOLDENROD LANE APPROACH, AND THE SENECA MEADOWS PARKWAY APPROACH. INTERSECTION LIGHTING EXISTS ON ALL CORNERS OF THE INTERSECTION. INTERCONNECT THAT CURRENTLY EXISTS NORTH TO MD 355 AND SOUTH TO I-270 WILL BE MAINTAINED.

APS MESSAGE FOR CROSSING MD 118 (GERMANTOWN ROAD) FROM SENECA MEADOWS PARKWAY:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS GERMANTOWN AT SENECA MEADOWS-GOLDENROD, SECOND BUTTON IN MEDIAN, WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

APS MESSAGE FOR CROSSING MD 118 (GERMANTOWN ROAD) FROM GOLDENROD LANE:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS GERMANTOWN AT GOLDENROD—SENECA MEADOWS, SECOND BUTTON IN MEDIAN, WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

APS MESSAGE FOR CROSSING MD 118 (GERMANTOWN ROAD) FROM MEDIAN:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS GERMANTOWN AT GOLDENROD—SENECA MEADOWS, WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

APS MESSAGE FOR CROSSING SENECA MEADOWS PARKWAY:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS SENECA MEADOWS AT GERMANTOWN, WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

APS MESSAGE FOR CROSSING GOLDENROD LANE:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS GOLDENROD AT GERMANTOWN, WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTROLLER REQUIREMENTS

THE EXISTING NEMA SIZE '6' BASE MOUNTED CABINET AND EIGHT-PHASE CONTROLLER AND ALL ASSOCIATED EQUIPMENT WILL CONTINUE TO BE USED. A 2-WIRE CENTRAL CONTROL UNIT WILL BE ADDED TO THE CABINET.

EQUIPMENT LIST "A"

A. EQUÍPMENT TO BE SUPPLIED BY SHA:

ITEM NO. QUANTITY UNIT DESCRIPTIO

900000 75 SF SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN

- 1 EACH M1-5(6) (30"×48") "NORTH", "118", RIGHT ARROW

- 1 EACH M1-5(6) (30"x48") "SOUTH", "118", RIGHT ARROW

- 1 EACH M1-5(6) (48"×72") "NORTH", "118", LEFT ARROW

- 1 EACH M1-5(6) (48"x72") "SOUTH", "118", LEFT ARROW

- 3 EACH R10-3(1) (9"x15") "GERMANTOWN ROAD" - POLE MOUNTED

- 2 EACH R10-3(1) (9"x15") "GOLDENROD LANE" - POLE MOUNTED

- 2 EACH R10-3(1) (9"x15") "SENECA MEADOWS PKWY" - POLE MOUNTED

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. ANYESHA MOOKHERJEE ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (301) 513-7404

MR. TOM FOUNTAIN

ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (301) 513-7304

PHONE: (410) 787-7650

MR. VICTOR GRAFTON

MR. ED RODÈNHIZER

CHIEF- SIGNAL SHOP

DISTRICT UTILITY ENGINEER PHONE: (301) 513-7350

MS. CORREN JOHNSON CHIEF - TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

MR. MIKE STOCKER SUPPLY OFFICE IV (SIGNAL SHOP WAREHOUSE) PHONE: (410) 787-7696

MR. EUGENE BAILEY CHIEF - SIGN OPERATIONS SECTION PHONE: (410) 787-7670

MR. PAUL WILSON PEPCO PHONE: (301) 548-4332

THE CONTACT PERSON FOR MCDPWT IS AS FOLLOWS:

MR. KAMUL HAMUD MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION PHONE: (240) 777-8761

VACANT MONTGOMERY COUNTY SIGNAL SHOP PHONE: (301) 279-1291

<u>EQUIPMENT LIST "B"</u>

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

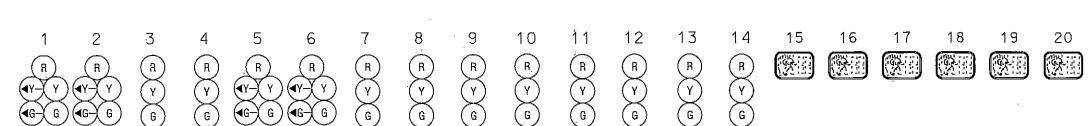
	ITE:M NO.	QUANTITY	UNIT	DESCRIP:TION
	100000	1	ĖΑ	MAINTENANCÉ OF TRAFFIC (PER ÍNTERSECTION)
	201032	5	ĊΥ	CLASS 2 EXCAVATION
	203030	4	ΘY	TEST PIT EXCAVATION
	585621	500	ĿF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
	585625	100	ĿF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES.
	585700	650	ĽF	REMOVAL OF EXISTING PAVEMENT MARKING LINES, ANY WIDTH
	60000Ö	160	ĿF	TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH
	600000	290	ĿF SF	TYPE A CURB ANY HEIGHT OR DEPTH
	655105	1500	SF	5 INCH CONCRETE SIDEWALK
	655120	115	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
	704345	15	SY	PLACING FURNISHED TOPSOIL 4 INCH DEPTH
	70822Ö	15	SY	TURFGRASS SOD ESTABLISHMENT
	800000	1	EΑ	2-WIRE APS CENTRAL CONTROL UNIT
	800000	7	EΑ	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
	800000	7	EΑ	5 FOOT OR 10 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS, FOUNDATION & GROUND ROD
	800000	1	EΑ	REMOVE & DISPOSE OF EXISTING SIGNAL EQUIPMENT (PER SIGNALIZED INTERSECTION LOCATION)
ĺ	800000	125	ĿF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
	000008	75	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
	800000	1	EΑ	THIRD PARTY CONCRETE TESTING (PER INTERSECTION)
	802501	125	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
	861105	1200	ĿF	ELECTRICAL CABLE — 2 CONDUCTOR (NO. 14 AWG)
╛				

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:

NONE.

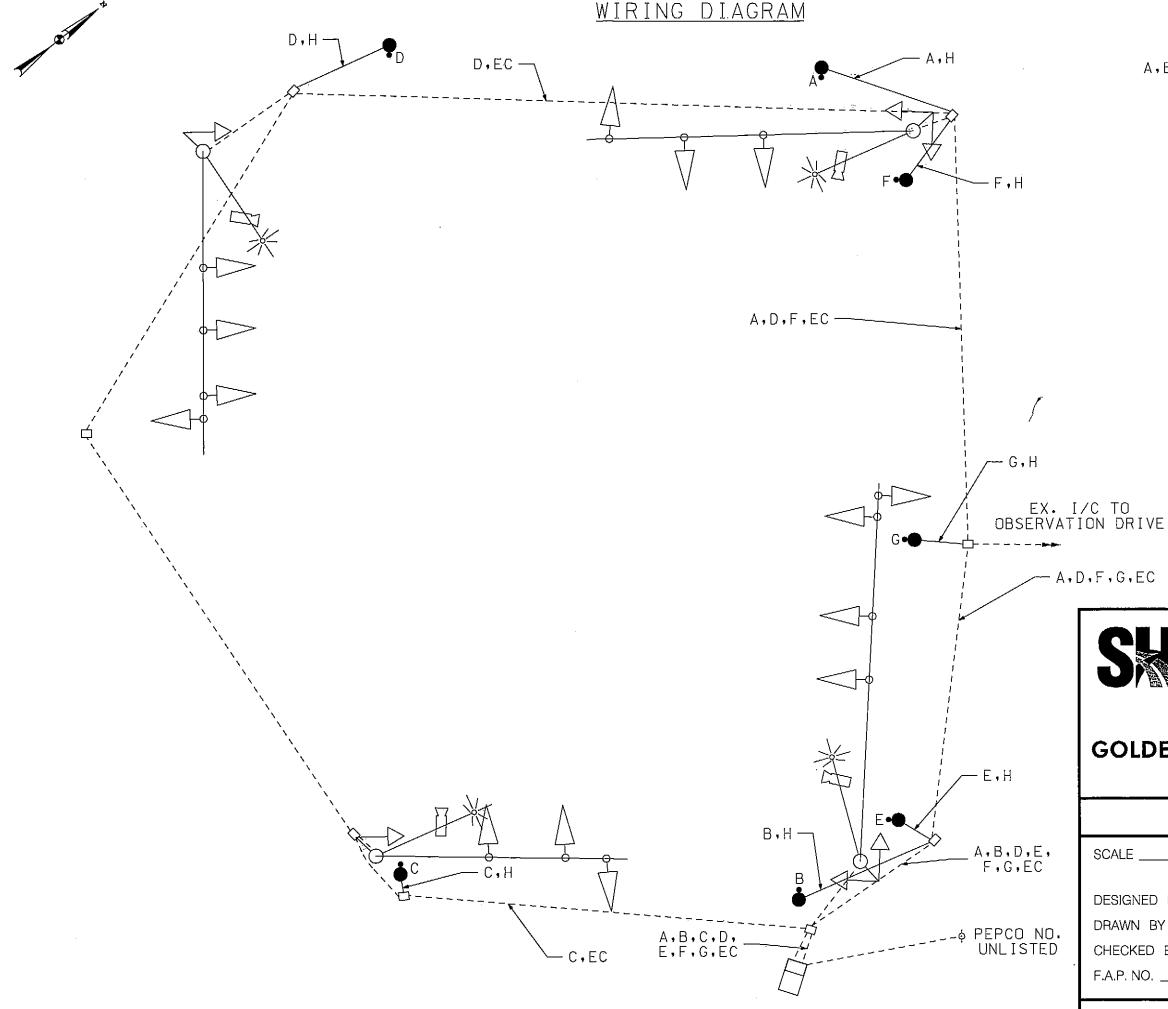
<u>Phase chart</u>



PHASE L+ 5	← G/R	← G/R	. R	R	← G/R	← G/R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DΨ	DW	· A /
I + 5 CHANGE	1 + 5	MAY	CHANGE	E TO P	HASE	+ 6,	PHASE	2 + 5	, OR F	HASE	2 + 6	_									\ \dot \dot \dot \dot \dot \dot \dot \do
PHASE I + 6.	← G/G	← G/G	G	G	R	R	Ŕ	R	R	R	R	R	R	R	DW	W	W	DW	DW	DW	上夕、
I + 6 CHANGE	←Y/G	← Y/G	G	G	R	R	R	R	R	R	R	R	R	R	DW	W	W	DW	DW	DW	0
PHASE 2 + 5	R	R	R	R	← G/G	← G/G	G	G	R	R	R	R	R	R	W	DW	DW	W ⁻	DW	Þ₩	QC
2 + 5 CHANGE	R	R	R	R	← Y/G	←Y/G	G	G	R	R	R	R	R	Ŕ	W	DW	DW	W	DW	DW	H ← -
PHASE 2 + 6	G	G	G	G	G	G	G	G	R	R	R	R	R	R	W	W	W	W	DW	DW] 0-
PED CLEARANCE	G	G	G	G	G	G	G.	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	
2 + 6 CHANGE	Y	Υ	Y	Y	Υ	Y	Υ	Υ	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	0
PHASE 4 + 8	R	R	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW	
4 + 8 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	Υ	Y	Y	DW	DW	DW	DW	DW	DW	
PHASE 4 + 8 ALT	R	R	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	W	W]],
PED CLEARANCE	R	R	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	
4 + 8 ALT CHANGE	R	R	R	R	R	R	R	R	Y	Y	Υ	Y	Υ	Y	DW	DW	DW	Ď₩	DW	DW	H
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	→ →

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PROPOSED ELECTRICAL CABLE

A,B,C,D, } 2-CONDUCTOR ELECTRICAL E,F,G } CABLE (NO. 14 AWG)

H } STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

EXISTING ELECTRICAL CABLE

EC } EXISTING ELECTRICAL CABLE TO REMAIN

<u>L</u>EGEND

+ - 3/4 IN. X 10 FT. GROUND ROD

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 118 (GERMANTOWN ROAD) AT GOLDENROD LANE/SENECA MEADOWS PARKWAY GERMANTOWN, MARYLAND

GENERAL INFORMATION SHEET

SCALE <u>NONE</u> DATE	AUGUST 12, 2013	CONTRACT NO. XY2385185						
DESIGNED BY NJM	COUNTY	MONTGOMERY						
DRAWN BYSPM	LOGMILE	15011806.52						
CHECKED BYBSH	T.I.M.S. N	NO,M005						
F.A.P. NO.	T.O.D. NO	T.O.D. NO						
T.S. NO. 4247A-GI SC	G-03 OF SG-03	SHEET NO. 3 OF 3						

PLOTTED: Tuesday, August 20, 2013 AT 10:12 AM = FILE: I:\5212 - TEDD\23 (PB 151) - MD 118, MD 185 Signals\Design\Engineering\PlanSet\MD 118 at Goldenrod-Seneca Meadows (TS 4247)\pSG-N001_TS4247A.dgn